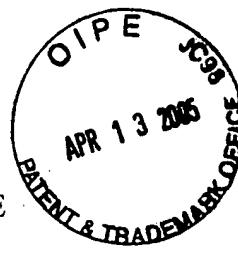


P27191.A02



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Douglas D. COOLBAUGH

Group Art Unit: 2811

Serial No: 10/707,905

Examiner: Hu Shouxiang

Filed: January 23, 2004

For: **STRUCTURE AND METHOD FOR HYPER-ABRUPT JUNCTION  
VARACTORS**

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
U.S. Patent and Trademark Office  
Customer Service Window, Mail Stop Amendment  
Randolph Building  
401 Dulany Street  
Alexandria VA 22314

Sir :

Under the provisions of 37 CFR §1.97 through §1.99 and pursuant to applicant's duty of disclosure under 37 CFR §1.56, applicant respectfully brings the following documents, listed on the attached form PTO-1449, to the attention of the Examiner in charge of the above-identified application. Applicant respectfully requests that the Examiner consider the materials cited and indicate such consideration by appropriately initialing the enclosed PTO-1449 Form and including a copy of the initialed form in the next official communication.

This citation does not constitute an admission that the references are relevant or material to the claims. They are only cited as constituting related art of which the applicant is aware.

Since this Statement is being submitted after first action on the merits but before the mailing of the final rejection, Applicant submits herewith the requisite fee of \$180.00 set forth in 37 C.F.R. § 1.17(p).

04/15/2005 MBYEENE1 00000010 090456 10707905

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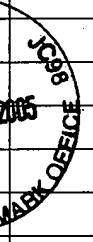
Please charge any deficiencies in fees and credit any overpayment of fees to deposit account no. 09-0456.

Respectfully submitted,  
Douglas D. COOLBAUGH



Andrew M. Calderon  
Registration No.38,093

April 11, 2005  
GREENBLUM & BERNSTEIN, P.L.C.  
1950 Roland Clarke Place  
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(703) 716-1191

FORM PTO-1449		U.S. Department of Commerce Patent and Trademark Office							Atty. Docket No. P27191		Application No. 10/707,905		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)									Applicant Douglas D. COOLBAUGH				
									Filing Date January 23, 2004		Group 2811		
<b>U.S. PATENT DOCUMENTS</b>													
EXAMINER INITIAL O P E		DOCUMENT NUMBER			DATE	NAME		CLASS	SUBCLASS	FILING DATE IF APPROPRIATE			
													
<b>FOREIGN PATENT DOCUMENTS</b>													
		DOCUMENT NUMBER			DATE	COUNTRY		CLASS	SUBCLASS	TRANSLATION YES      NO			
	4	-	0	6	2	9	7	7	02/27/92	JAPAN			
	63	-	3	0	0	5	7	0	12/07/88	JAPAN			
	2003	-	3	1	8	4	1	4	11/07/03	JAPAN			
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>													
		1	English Language Abstract of JP 4-062977.										
		2	English Language Abstract of JP 2003-318414.										
		3	English Language Abstract of JP 1-019779.										
		4	An Article of VELLANKI et al., entitled: "Highly Conductive n+ Layers in InP:Fe Created by MeV Energy Si, S, and Si/S Implantation for Application to Microwave Devices", Journal of Electronic Materials, Vol. 22, No. 1, 1993, pp. 03-10.										
EXAMINER		DATE CONSIDERED											